

SAFETY DATA SHEET

WEST SYSTEM 205 HARDENER

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME WEST SYSTEM 205 HARDENER
 PRODUCT NO. 205
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2 HAZARDS IDENTIFICATION

Toxic by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of irreversible effects.

CLASSIFICATION T;R23/24/25. Xn;R48/20/21/22. Mut 3;R68. C;R34. R43. R52/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
FORMALDEHYDE POLYMER WITH PHENOL & TETA		32610-77-8	30-60%	Xn;R21/22. C;R34. R43,R52/53.
TETRAETHYLENEPENTAMINE	203-986-2	112-57-2	10-30%	C;R34 Xn;R21/22 R43 N;R51/53
TRIETHYLENETETRAMINE	203-950-6	112-24-3	10-30%	C;R34 Xn;R21 R43 R52/53
PHENOL	203-632-7	108-95-2	10-30%	Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. Foam. DO NOT use water if avoidable.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Water spray should be used to cool containers. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of Nitrogen.

PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from light, including direct sunrays. Store separated from: Acids. Alkalies. Oxidising material.

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs	STEL - 15 min	Notes
PHENOL	WEL	2 ppm(Sk)		

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid
COLOUR	Light (or pale) Amber

WEST SYSTEM 205 HARDENER

ODOUR	Amine.		
SOLUBILITY	Slightly soluble in water.		
RELATIVE DENSITY	1.05 20	VISCOSITY	450 mPas 25
FLASH POINT (°C)	> 100 CC (Closed cup).		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong acids. Strong alkalis. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures may form toxic and corrosive vapours. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of Nitrogen.

11 TOXICOLOGICAL INFORMATION

INHALATION

Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

INGESTION

Toxic if swallowed. Causes burns. May cause severe internal injury.

SKIN CONTACT

Toxic in contact with skin. May cause sensitisation by skin contact. Causes burns. May cause skin irritation/eczema

EYE CONTACT

May cause chemical eye burns.

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion.

TARGET ORGANS

Skin. Eyes. Gastro-intestinal tract.

MEDICAL SYMPTOMS

Upper respiratory irritation. Skin irritation. Skin contact may cause: Allergic rash. Eye contact may cause: Extreme irritation of eyes and mucous membranes, including burning and tearing. May cause discomfort if swallowed.

MEDICAL CONSIDERATIONS

Skin disorders and allergies. Persons with rash are directed to skin expert for examination of allergic eczema. Splash in eye requires examination by eye specialist.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

No data available.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

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UK ROAD CLASS	8	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	CORROSIVE LIQUID, TOXIC, N.O.S. (FORMALDEHYDE POLYMER WITH PHENOL & TETA, PHENOL)		
UN NO. ROAD	2922	ADR CLASS	Class 8: Corrosive substances.
ADR CLASS NO.	8	TUNNEL RESTRICTION CODE	(E)
ADR PACK GROUP	II	ADR LABEL NO.	8 & 6.1
HAZARD No. (ADR)	86	CEPIC TEC(R) NO.	80GCT1-II+III
HAZCHEM CODE	2X	RID PACK GROUP	II
RID CLASS NO.	8	IMDG CLASS	8
UN NO. SEA	2922	EMS	F-A, S-B
IMDG PACK GR.	II	UN NO. AIR	2922
MFAG	See Guide	AIR SUB CLASS	6.1
AIR CLASS	8		
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Toxic



Corrosive

CONTAINS
 FORMALDEHYDE POLYMER WITH PHENOL & TETA
 TETRAETHYLENEPENTAMINE
 TRIETHYLENETETRAMINE
 PHENOL

RISK PHRASES

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68	Possible risk of irreversible effects.

SAFETY PHRASES

S1/2	Keep locked up and out of the reach of children.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S46	If swallowed, seek medical advice immediately and show this container or label.
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
S60	This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974.

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EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (SI 1689)

APPROVED CODE OF PRACTICE

Control of Substances Hazardous to Health Regulations 2002.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION DATE 26.01.09

SDS NO. 10558

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

- R21 Harmful in contact with skin.
- R21/22 Harmful in contact with skin and if swallowed.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R68 Possible risk of irreversible effects.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.